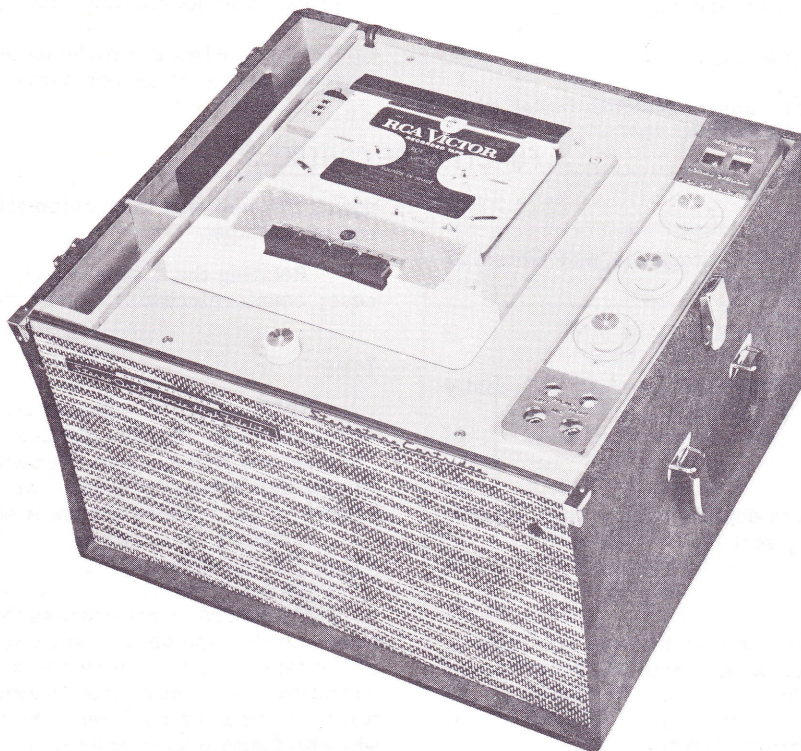


RCA VICTOR MODEL
SCP-2 (Ch. RS-176, TCT-2)RCA VICTOR MODEL
SCP-2 (Ch. RS-176, TCT-2)

GENERAL INFORMATION

RCA Model SCP-2 tape recorders consist of a TCT-2 tape transport and an RS-176 amplifier. The Model SCP-2 tape recorder plays and records both monaural and stereo recordings. A tape cartridge is required.

This recorder has an automatic shut-off to stop the mechanism when the tape is wound from the supply reel to the take-up reel, or vice versa. The tape transport controls are the push-button type.

The Model SCP-2 recorder has a safety switch to prevent accidental erasure of a pre-recorded tape.

The recorder has one tape speed, 3 3/4 ips. When a fully loaded four-track cartridge is used, the playing and recording times are one hour for a stereo tape and two hours for a monaural tape.

The Model SCP-2 tape recorder operates on 110-120 volts, 60 cycles AC only.

Manufactured by:

Radio Corporation of America
RCA Victor Radio and "Victrola" Division
Camden 8, New Jersey

This material compiled and published by

HOWARD W. SAMS & CO., INC., INDIANAPOLIS 6, INDIANA
CQ413

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PREPARING FOR OPERATION

1. Place recorder on a level surface.
2. Remove carrying-case lid.
3. Plug power cord into any convenient outlet of

proper voltage and frequency rating.

4. Remove the two microphones and tape cartridges from their storage compartment.

FUNCTION OF CONTROLS

Stop

Depressing this button stops the mechanism in any mode of operation.

Fast Button

When this button is depressed, the tape rapidly advances to any desired section.

Fast Button

When this button is depressed, the tape rapidly rewinds onto the supply reel.

Play-Record Button

Depressing this button sets the tape in motion at 3 3/4 ips. This control is used with the Play-Record control on the amplifier.

Forward Automatic Shutoff Pin

In the Forward position, this control automatically shuts off the unit when the tape reaches the end of the hub.

Rewind Automatic Shutoff Pin

In the Rewind position, this control automatically shuts off the unit when the tape reaches the end of the hub.

Guide Bar Switch

The pin on this switch fits into the cutout in the cartridge, and thus prevents accidental erasure of prerecorded tapes.

On-Off Loudness

Pulling this knob up turns the power on. After the unit has been started, the knob may be pushed

down; the unit will then automatically shut off at the end of the tape.

Rotating the knob clockwise increases the loudness; counterclockwise, decreases the loudness.

Tone

This control regulates the tone on both channels simultaneously. Turning it clockwise from the normal "N" position on the knob increases the high frequency; counterclockwise, increases the low frequency. This control is used during playback only.

Record-Play

To record, first depress the Record-Play push button on the tape deck. When any other push buttons on the tape deck are depressed to change the mode of operation, the Record-Play control automatically returns to the Play position. Do not turn this control while playing a prerecorded tape cartridge. A warning buzz will be heard if this is attempted.

Function (Aux-Str-Mon)

When this control is turned to the Aux position, the internal speakers of the tape recorder can be used as a left-channel speaker system for a stereophonic phonograph. When playing or recording stereophonic tape cartridges, turn the control to the Str position. To play or record monaurally, turn it to Mon 1 or Mon 2. Mon 1 plays tracks A1 and B1; Mon 2 plays tracks A2 and B2.

Balance

This control regulates the loudness of the two sound channels during playback. Midrange is the normal position for the control. In monaural operation, this control regulates the volume of Tracks A2 or B2 independently from the Loudness control. If the Balance control is correctly adjusted for stereophonic operation, it need not be readjusted for monaural operation.

SPLICING THE CARTRIDGE TAPE

1. With the cartridge assembled, push the brake slide forward. This permits the tape to be pulled out so that it will be accessible.
2. Butt the two ends of the tape together.
3. Fasten the two ends with splicing tape. Trim off the excessive tape evenly with the edge of the recording tape.
4. Tighten the tape by turning the supply reel clockwise or the take-up reel counterclockwise.
If it is necessary to disassemble the cartridge

in order to splice the tape, proceed as follows:

- a. Remove the two locking screws.
- b. Remove cartridge case side "A".
- c. Remove the Mylar spacer.
- d. Repeat steps 1 through 4.
- e. To reassemble, reverse the foregoing procedure.

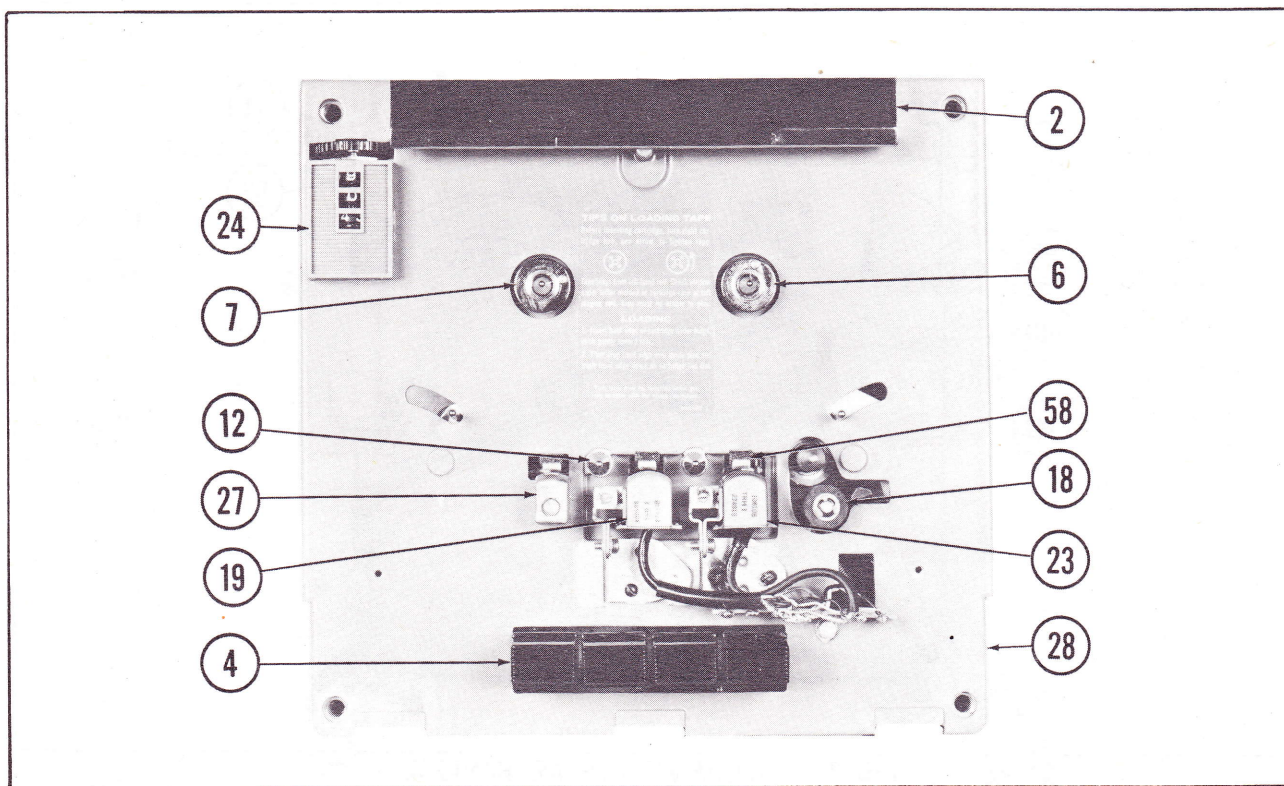


FIG.1 TOP VIEW OF MECHANISM WITH TOP DRESS PLATE REMOVED.

DISASSEMBLY

To Remove Tape Transport from Case

1. Remove the ventilation screen on the bottom of the case.
2. Unplug the head cables and power cables from the amplifier.
3. Remove the tape-head escutcheon.
4. Remove the four screws holding the tape transport to the case; then lift the tape transport from the case.
5. To reassemble, reverse the foregoing procedure.

To Remove Amplifier from Case

1. Unplug the connecting cable to the transformer.

2. Remove the control knobs.

3. Remove the hex nut from the Balance control.
4. Remove the seven screws holding the mounting board to the case. Remove the board.
5. Disconnect the speaker leads.
6. Disconnect the leads to the right-channel speaker jack.
7. Remove the four hex head screws holding the amplifier to the side of the case. Lift the amplifier from the case.
8. To reassemble, reverse the foregoing procedure.

ADJUSTMENTS

Play-Record Push Button

When the Play-Record push button is latched, 8 to 12 ounces of force should be required to trip the Forward shutoff pin. Turn screw (77) on forward toggle adjusting bracket (80) clockwise to reduce the force, counterclockwise to increase the force.

Fast Rewind

A force of 8 to 12 ounces should be required to trip the rewind shutoff pin. Turn screw (64) on rewind toggle adjusting bracket (61) clockwise to reduce the force, counterclockwise to increase the force.

Fast Forward

Turn eccentric stud (97) on fast forward actuating lever (65) until the 8 to 12 ounce-force needed to trip the Forward shutoff pin is obtained.

Pressure Pad

1. Disconnect the power.
2. Check felt pressure pads (58) and (142). They must be centered on the heads, and the pressure pad assembly must have minimum end play.

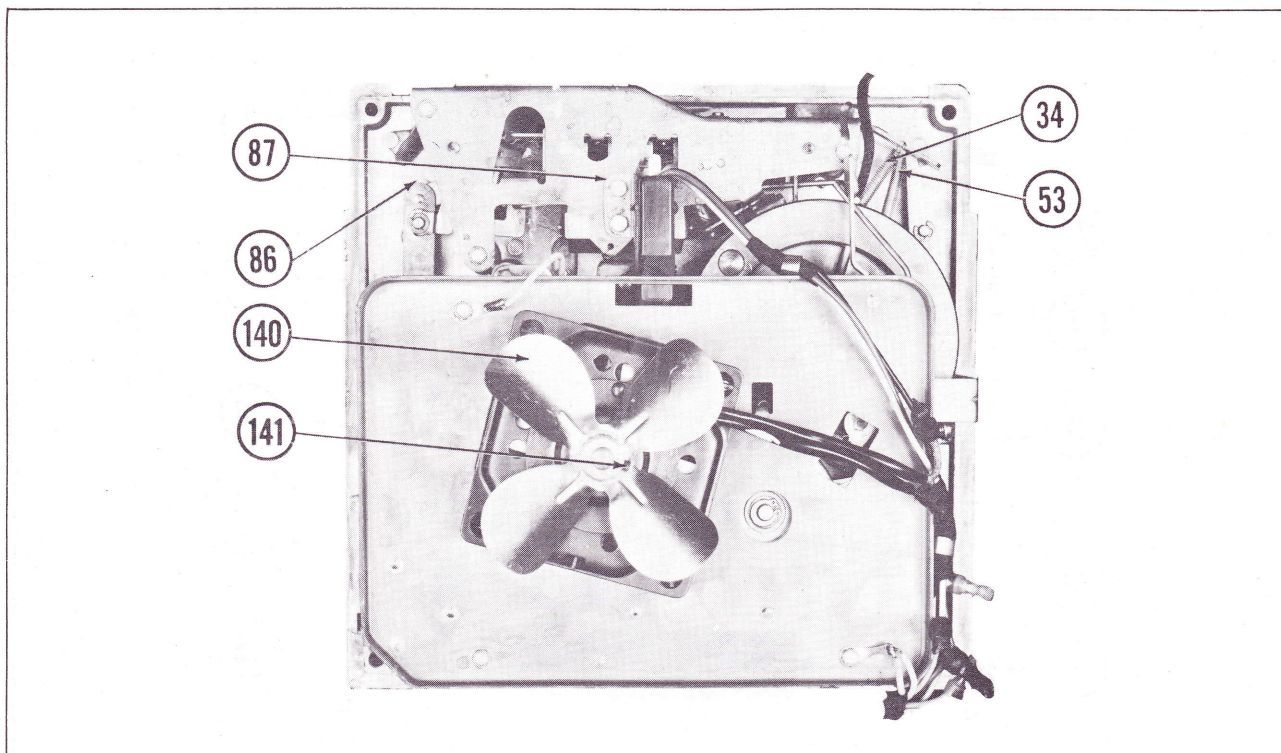


FIG. 2 BOTTOM VIEW OF MECHANISM.

3. Insert a piece of tape between the heads and tape guides, and depress the Play-Record push button.
4. The force required to pull the tape past the heads is 2 to 3 ounces.
5. Adjust screw (57) until this force is obtained.

Pressure Roller

1. Connect the transport to the power source.
2. Place a loaded tape cartridge on the transport, and depress the Play-Record push button.
3. Connect a spring balance to the pressure roller. A force of 3 to 3 1/2 pounds should be needed to pull the pressure roller away from the capstan.
4. Turn adjusting nut (89) until this force is obtained.

Turntable Height

The turntable height has been adjusted at the factory. Therefore, no further adjustment should be required. If it becomes necessary to remove the turntables in order to service the shaft assemblies, the shims must be kept with their respective shafts.

Head Alignment

1. Adjust the vertical position of the erase and play-record heads by loosening locking screws (22), so that their faces are parallel to the tape guides.

2. Place a loaded test tape cartridge on the mechanism.
3. Connect an output meter between the right-channel output and ground.
4. Turn the track selector to Mon 1 and the Volume control to maximum.
5. Adjust the vertical position of the play-record head for minimum output while playing the low-frequency section of the tape.
6. Loosen screws (143) and tighten one screw to obtain maximum output for the azimuth adjustment. Tighten both screws while observing the output level.
7. To check the erase head, make a recording on a blank tape. Rewind and play back the tape, to make sure the mechanism has recorded.
8. Rewind the tape, turn the volume to minimum, and place the mechanism in Record.
9. Rewind the tape, and play it back at maximum volume to see if it has been erased.

Pressure Roller Alignment

If cross talk occurs between tracks, proceed as follows:

1. Disconnect the power source.
2. Remove pressure roller (18) from the pressure roller stud.

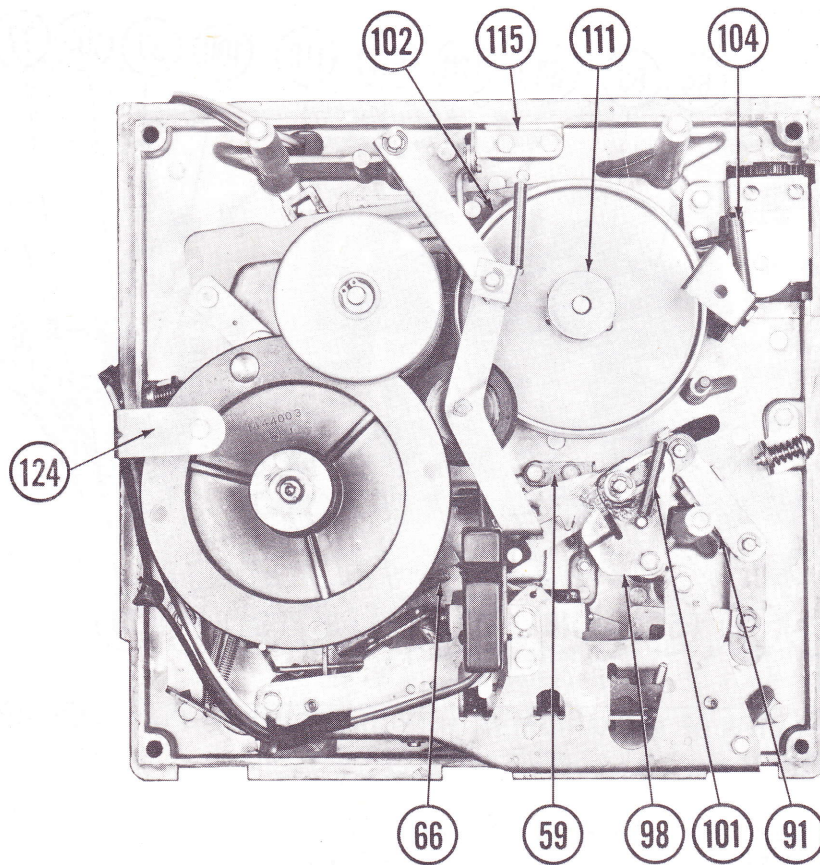


FIG.3 BOTTOM VIEW OF TAPE DECK WITH MOTOR MOUNTING PLATE REMOVED.

3. Use a hollow tool to align the stud.
4. Replace pressure roller (18), and check for cross talk.

3. If more or less than 14 to 20 ounces of force are required to cause the fast forward clutch to slip in the Fast Forward position, turn screw (73) on the fast-forward clutch assembly.

Clutch

NOTE: Before making any clutch adjustment, check the following:

1. Make sure the set screws are tight on the clutch dogs.
2. Check the tape cartridge for coning. If one of the turntables is too low, the tape will wind into a concave cone; if too high, the tape will wind into a convex cone. Either condition will create friction, which will cause the clutch to slip.

To regulate the friction:

1. If more or less than 3 to 4 ounces of force are required to cause the take-up clutch to slip in the Play position, turn screw (73) on the take-up clutch assembly.
2. If more or less than 14 to 20 ounces of force are required to cause the rewind clutch to slip in the Fast Rewind position, turn screw (73) on the rewind clutch assembly.

Recording Level Indicators (R3, R4)

1. Connect an audio generator, tuned to 1000v, to the Left Channel Radio-Phono jack.
2. Connect AC VTVM to point Δ and chassis.
3. Actuate guide bar switch by using a tape cartridge. Set transport switches to "Record" and "Track 1".
4. Adjust generator output and recorder Loudness control for 4.5 volts on VTVM.
5. Adjust Normal control (R3) counterclockwise then clockwise until Normal neon bulb barely lights.
6. Adjust generator output and recorder Loudness control for 9 volts on VTVM.
7. Adjust Overload control (R4) counterclockwise then clockwise until Overload bulb barely lights.

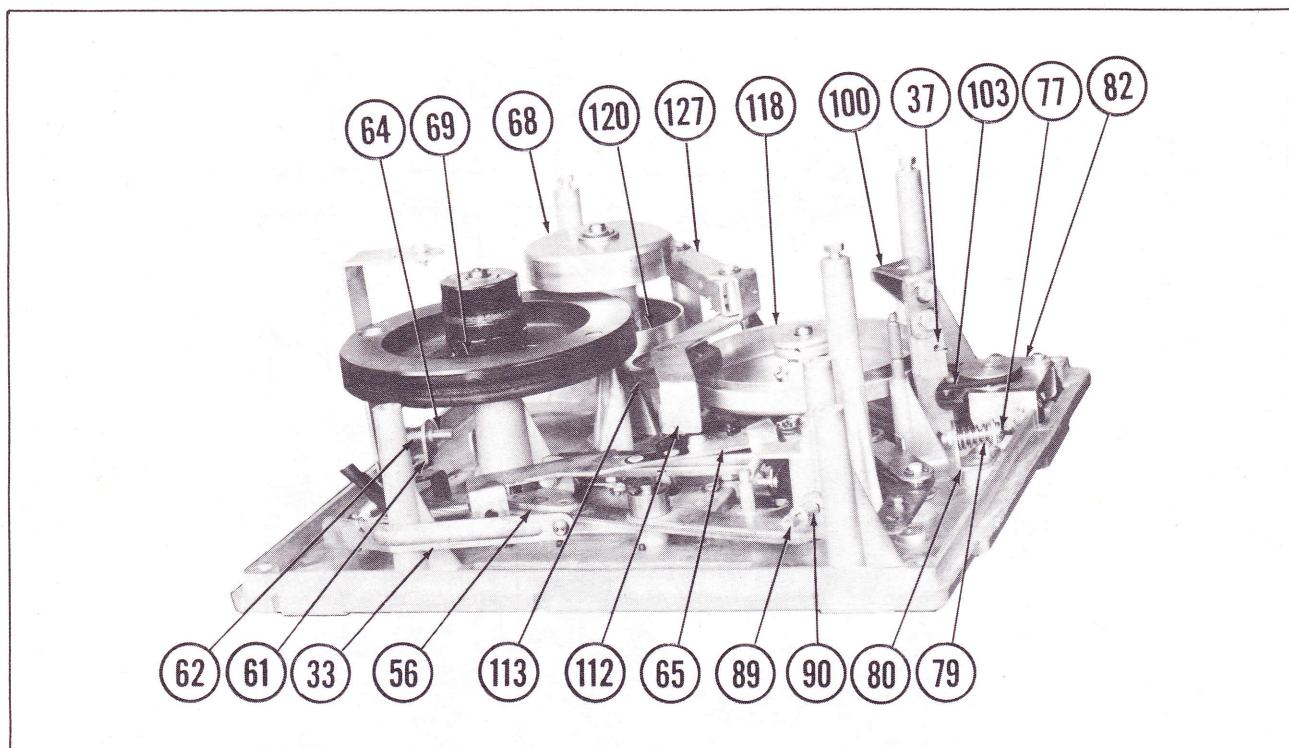


FIG. 4 BOTTOM VIEW OF MECHANISM WITH MOTOR MOUNTING PLATE AND PUSHBUTTONS REMOVED.

Recording Bias (C44, C45)

NOTE: Two color dots are located on the recording head. The top color refers to Track 2 (adjust C44); the bottom color refers to Track 1 (adjust C45).

Track 1

1. Remove bottom cover screen and allow recorder to operate for 15 minutes.
2. Connect a calibrated scope (low capacity probe) to point $\diamond$ and chassis.
3. Set recorder to "Record" and "Track 1", Loudness at minimum.
4. Adjust C44 for voltage indicated in chart.

Track 2

1. Connect the scope to point $\diamond$ and chassis.
2. Set recorder to "Record" and "Track 2", Loudness at minimum.
3. Adjust C45 for voltage indicated in chart.

COLOR DOT ON HEAD	VOLTAGE
Blue	16.8V p-p
Yellow	19.6V "
Black	22.4V "
Brown	23.8V "
Orange	25.2V "
Red	26.6V "
Green	28.0V "
White	30.8V "

LUBRICATION

Additional lubrication should not be required for a long time, since the mechanism has been lubricated before leaving the factory. However, if parts are removed for repair or replacement, lubricate them with light grease, as follows:

1. Push-button bracket shafts.
2. Area between rewind toggle arm (112) and rib on motorboard (128).
3. Surfaces of push-button bracket locking slide lever (46).

4. Ear of fast-forward idler mounting lever (112).
5. Grease cup under flywheel (69).

Lubricate the following with a clinging-type oil:

1. Idler shafts.
2. Toggle link joints.
3. Pivot joints.
4. Capstan and turntable shaft bearings.

NOTE: Do not overlubricate the turntable shafts.
Excessive lubrication may seep onto the clutch
linings and cause the clutches to slip.

CLEANING

The capstan, pressure roller (18), tape guide posts (12), record-playback head (21), erase head (19), and tape tensioning head (27) may accumulate tape coating oxide, which is worn off the tape as it passes these parts. Use a soft cloth and alcohol to clean these

parts.

Clean the idler wheels, pulleys, and clutch linings with a good cleaning solvent if they should become greasy or oily.

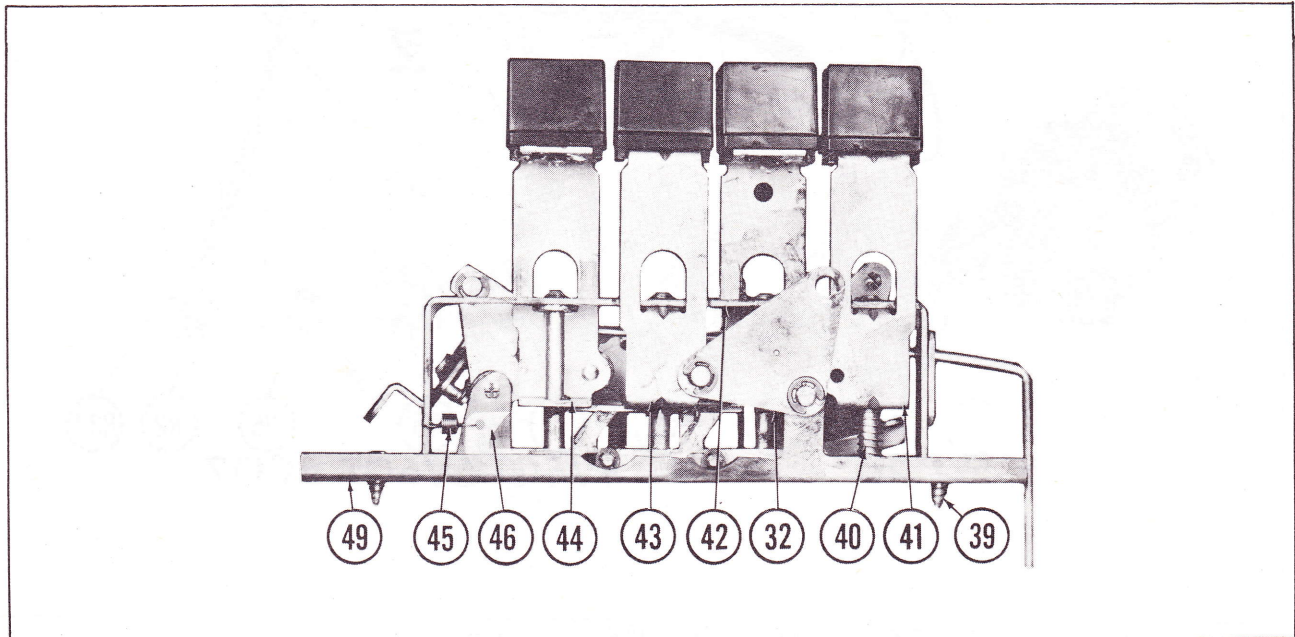


FIG.5 FRONT VIEW OF PUSHBUTTON ASSEMBLY.

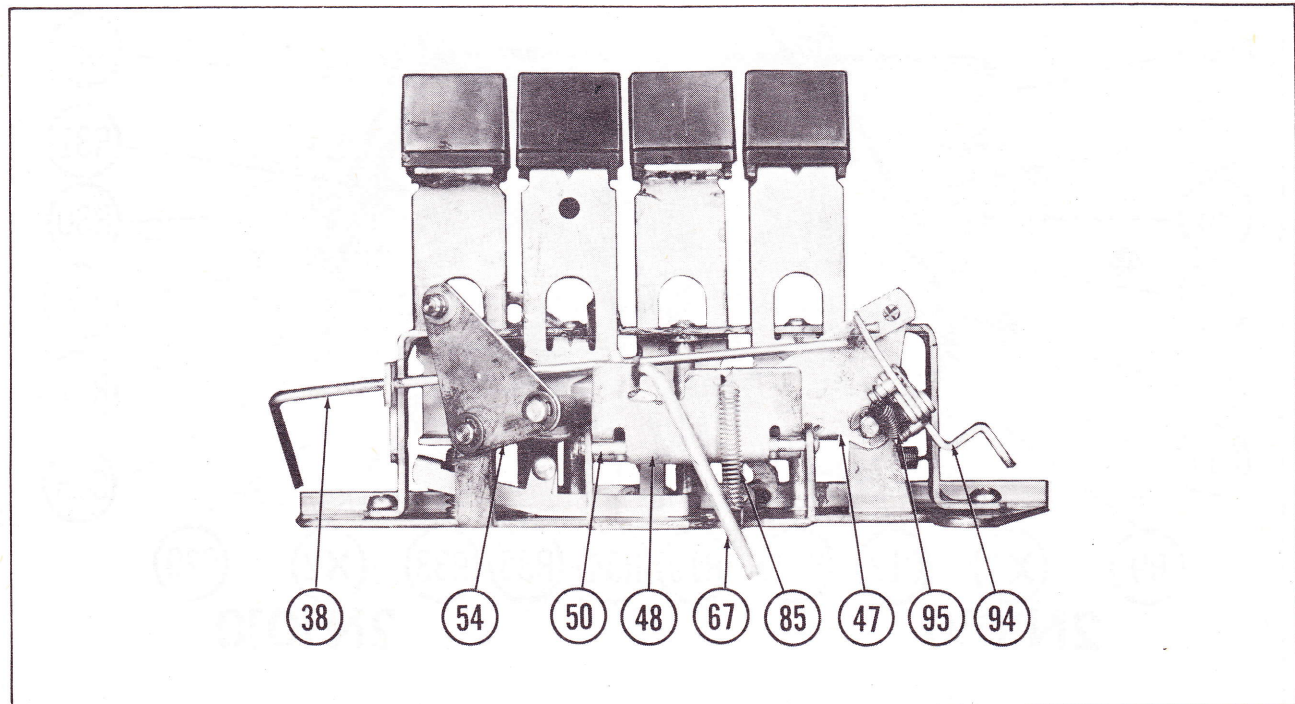


FIG.6 REAR VIEW OF PUSHBUTTON ASSEMBLY.

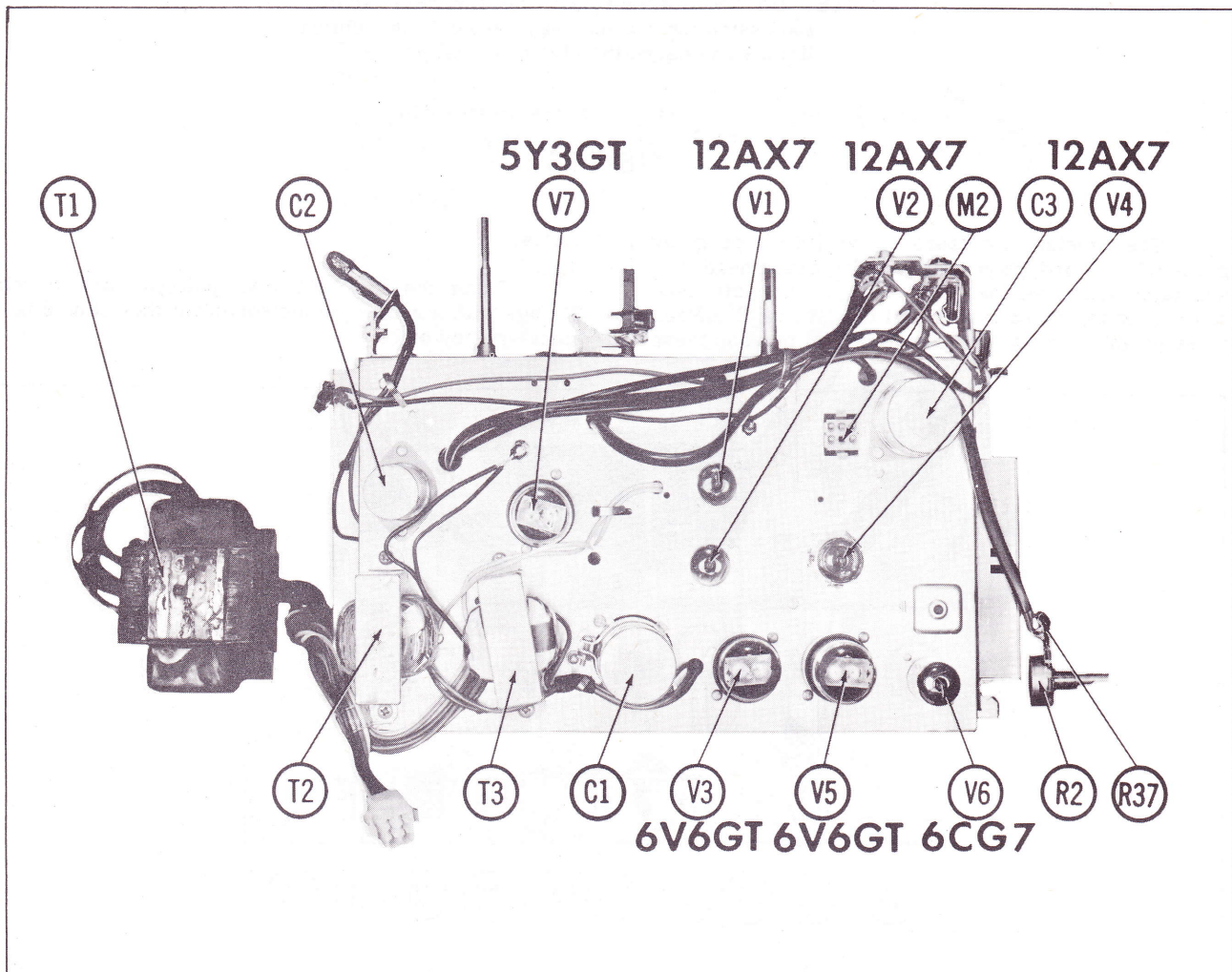


FIG.7 AMPLIFIER CHASSIS — TOP VIEW.

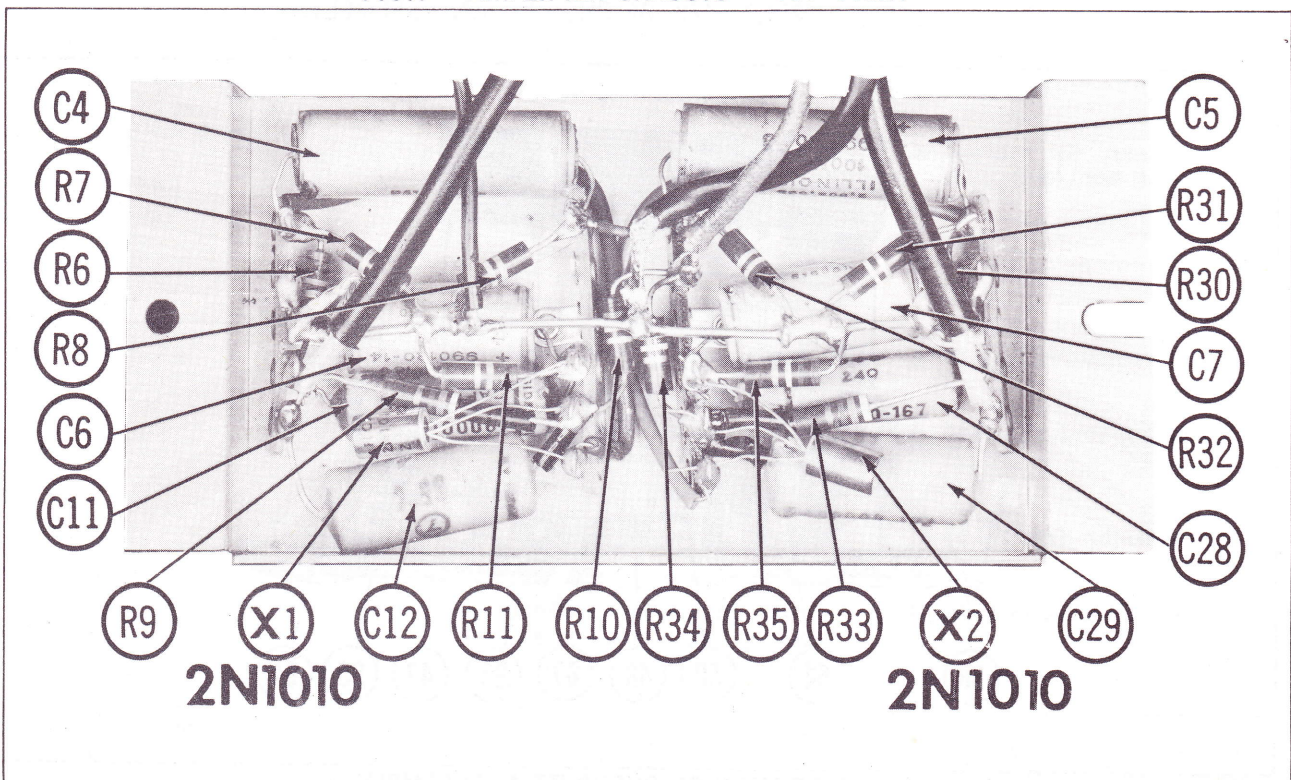
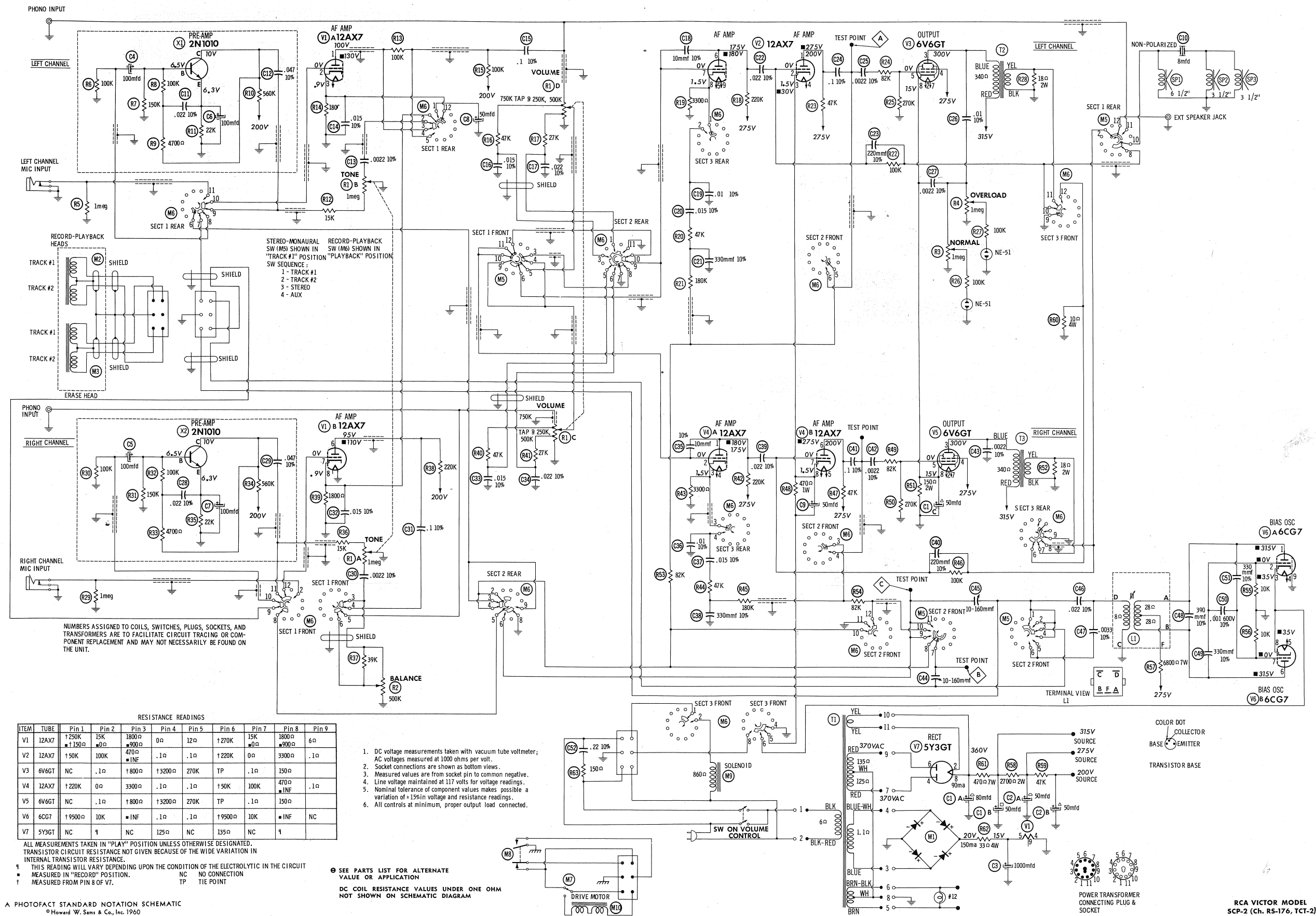
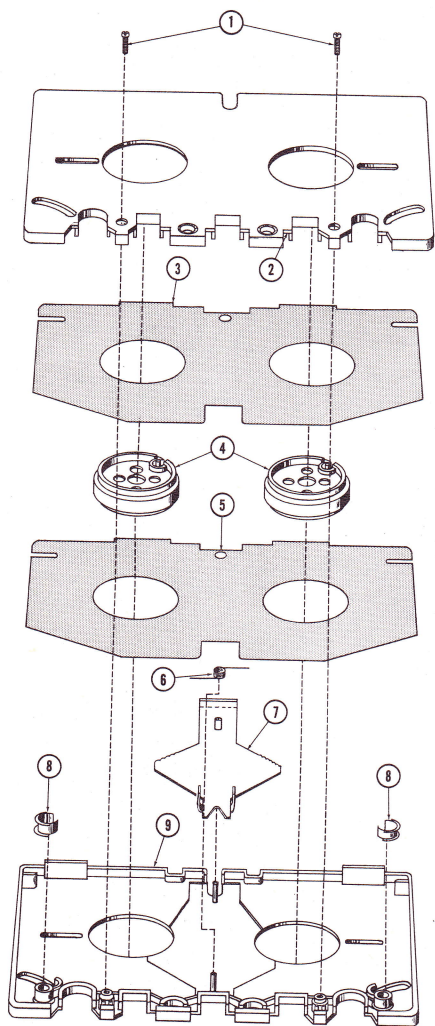


FIG.8 PREAMPLIFIER CHASSIS — BOTTOM VIEW.

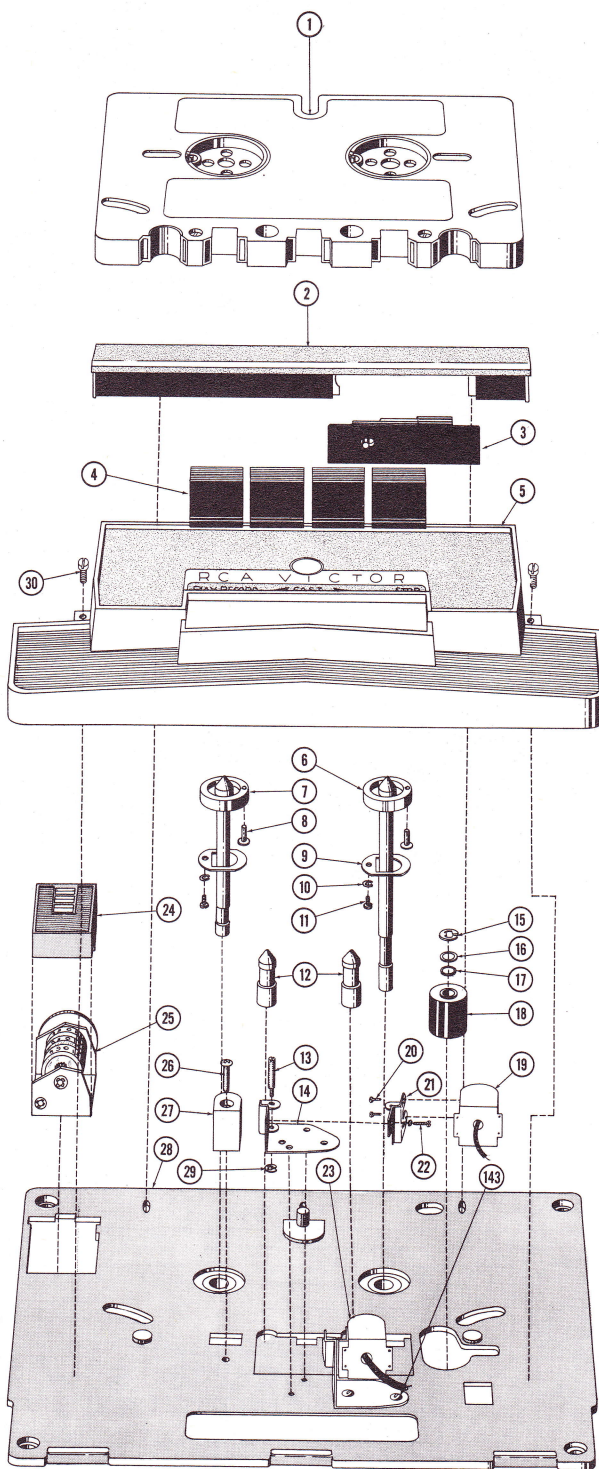




A PHOTOFAC "EXPLODED" VIEW
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FIG. 9 A

EXPLODED VIEW OF TAPE CARTRIDGE.



A PHOTOFAC "EXPLODED" VIEW
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FIG. 9B

EXPLODED VIEW OF PARTS ABOVE MOTORBOARD.

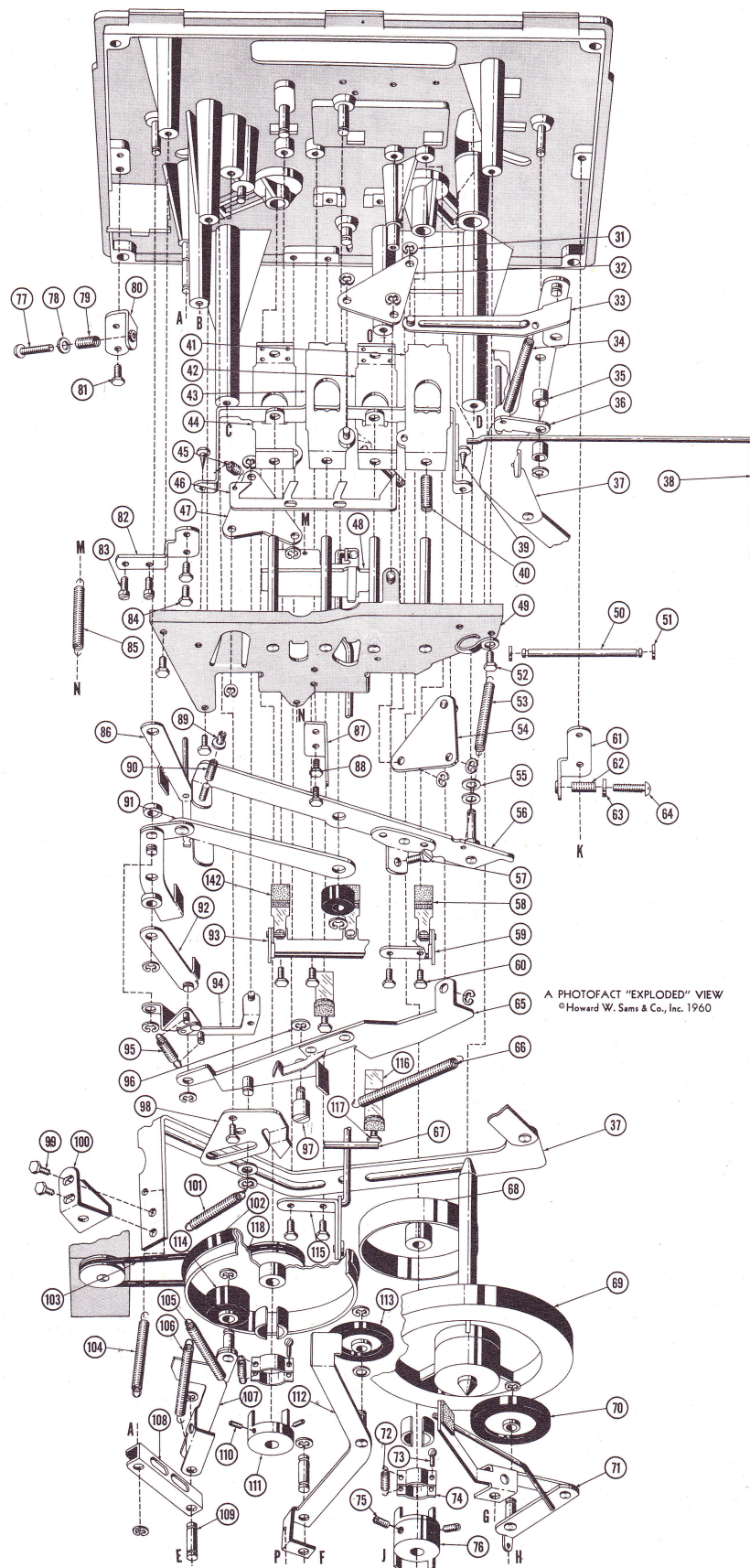


FIG. 9C EXPLODED VIEW OF PARTS BELOW MOTORBOARD

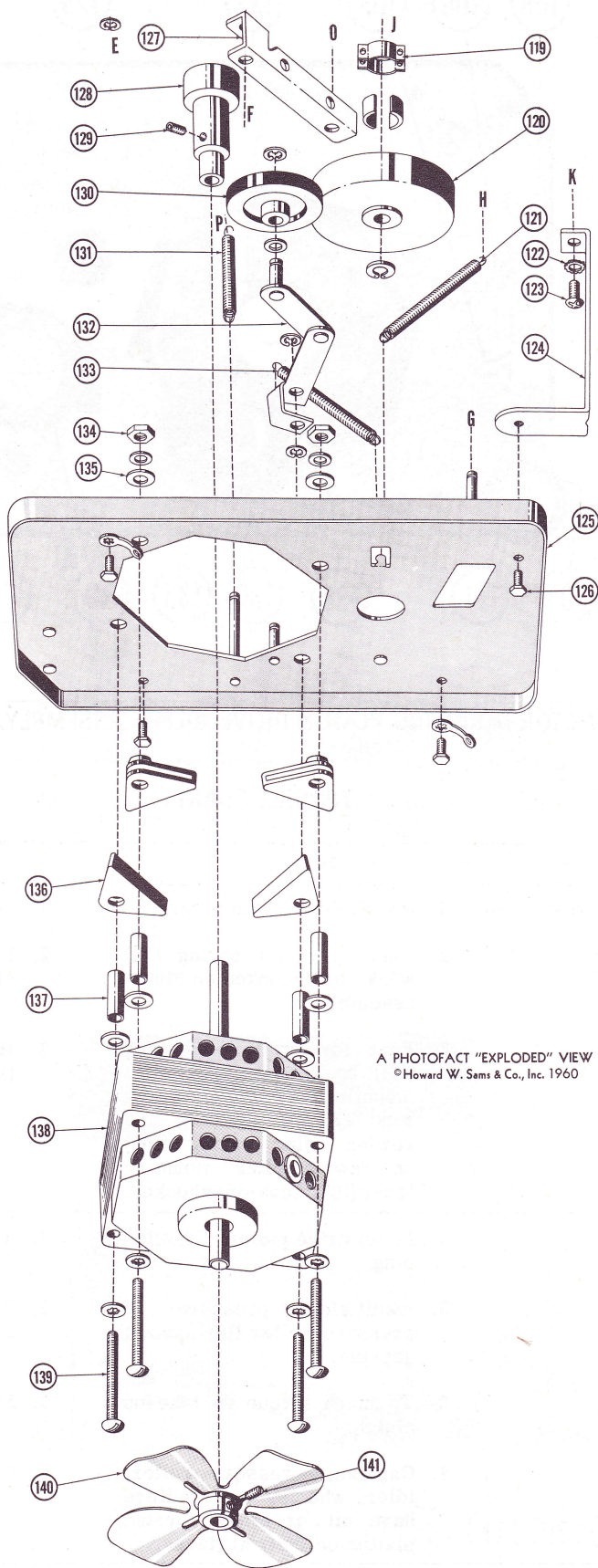


FIG. 9D EXPLODED VIEW OF PARTS BELOW MOTORBOARD (CONT.)

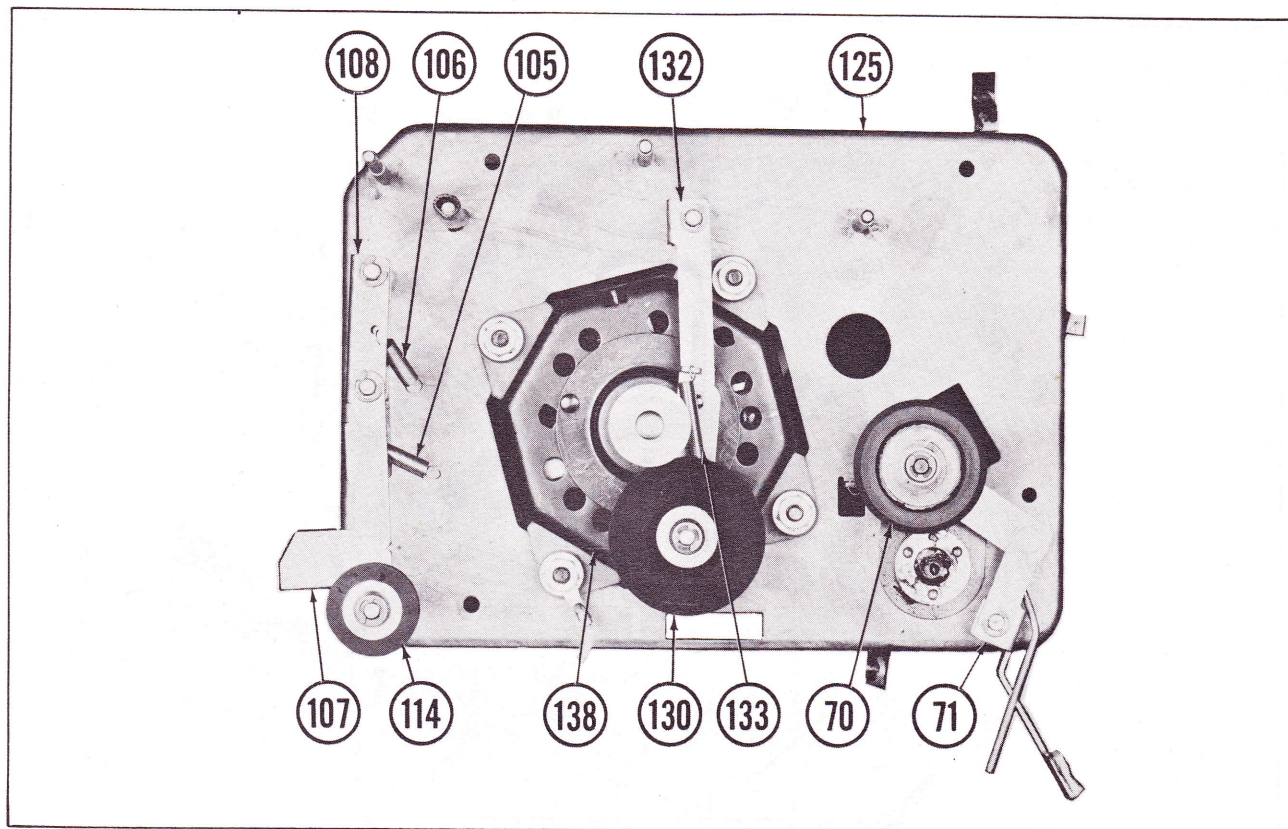


FIG. 10 MOTOR MOUNTING PLATE & DRIVE IDLERS ASSEMBLY.

TROUBLE CHART

Symptom	Cause	Remedy
No fast forward or rewind.	1. Insufficient clutch torque. 2. Take-up clutch spring (72) weak, or unhooked on clutch assembly. 3. Fast forward idler spring (131) on fast forward idler mounting lever (112), or rewind arm spring (105) and rewind idler spring (106) on rewind idler mounting lever (107) weak or unhooked.	1. See "Clutch Adjustment." 2. Replace or rehook take-up clutch spring (72). 3. Replace or rehook springs (131), (105), and (106).
Wow.	1. Motor drive pulley (128) slipping. 2. Insufficient pressure of pressure roller (18) against capstan. 3. Too much torque on take-up clutch. 4. Capstan, pressure roller, idler wheels, and pulleys have oil or other foreign matter on their surfaces.	1. Tighten set screws (129). 2. See "Pressure Roller Adjustment." 3. See "Clutch Adjustment." 4. Clean these parts with alcohol.
Will not shutoff automatically.	1. Tape on wrong side of shutoff pin (36) or (86).	1. Loosen screws (99) and shift rewind idler striker bracket (100).

Symptom	Cause	Remedy
	2. Not enough clutch torque.	2. See "Clutch Adjustment."
Mechanism shuts off before end of tape is reached.	1. Tripping force too small.	1. See "Pin Adjustment."
Does not record or erase.	1. Heads out of alignment.	1. See "Head Alignment."
	2. Pressure pads out of adjustment or worn.	2. Adjust or replace pressure pads.
	3. Tape threaded incorrectly.	3. The dull-coated side of tape must face outward.
	4. Guide bar switch not positioned correctly.	4. Loosen screws, and move right side of guide bar.
	5. Head or guide bar switch defective.	5. Replace head or guide bar switch.
Will not take up.	1. Tape on wrong side of shutoff pin.	1. Rethread the tape.
	2. Spring (72) on take-up clutch weak or unhooked.	2. Replace or connect spring (72).
	3. Take-up idler spring (121) on take-up idler mounting lever (71) weak or unhooked.	3. Replace or connect take-up idler spring (121).
	4. Take-up clutch improperly adjusted.	4. See "Clutch Adjustment."
	5. Lubricant has become dry in the take-up clutch lining.	5. Replace clutch assembly.
	6. Take-up idler shift rod (38) disconnected from take-up idler mounting lever (71).	6. Reconnect take-up idler shift rod (38).
Push buttons do not latch when depressed.	1. Push-button locking slide spring (45) weak or unhooked.	1. Replace or reconnect push-button locking slide spring (45).
	2. Pressure roller force too great, preventing the Play-Record push button from latching.	2. See "Pressure Roller Adjustment."
Tape binding in cartridge.	1. Cartridge warped.	1. Replace cartridge.
	2. Cartridge not seated properly on transport bosses.	2. Remove cartridge and reseal on bosses.
	3. Turntables too high or too low.	3. Check shims under turntables.
Tape breaks.	1. Excessive clutch friction.	1. See "Clutch Adjustment."
	2. Tripping force of shutoff pins (36) and (86) too great.	2. See "Shutoff Pin Adjustments."
	3. Excessive slack within the cartridge.	3. Turn take-up reel counter-clockwise to take up the slack.
	4. Insufficient take-up clutch torque, permitting the tape to wrap around the capstan.	4. See "Take-up Clutch Adjustment."
	5. Pressure roller (18) applying too much force against the capstan.	5. See "Pressure Roller Adjustment."

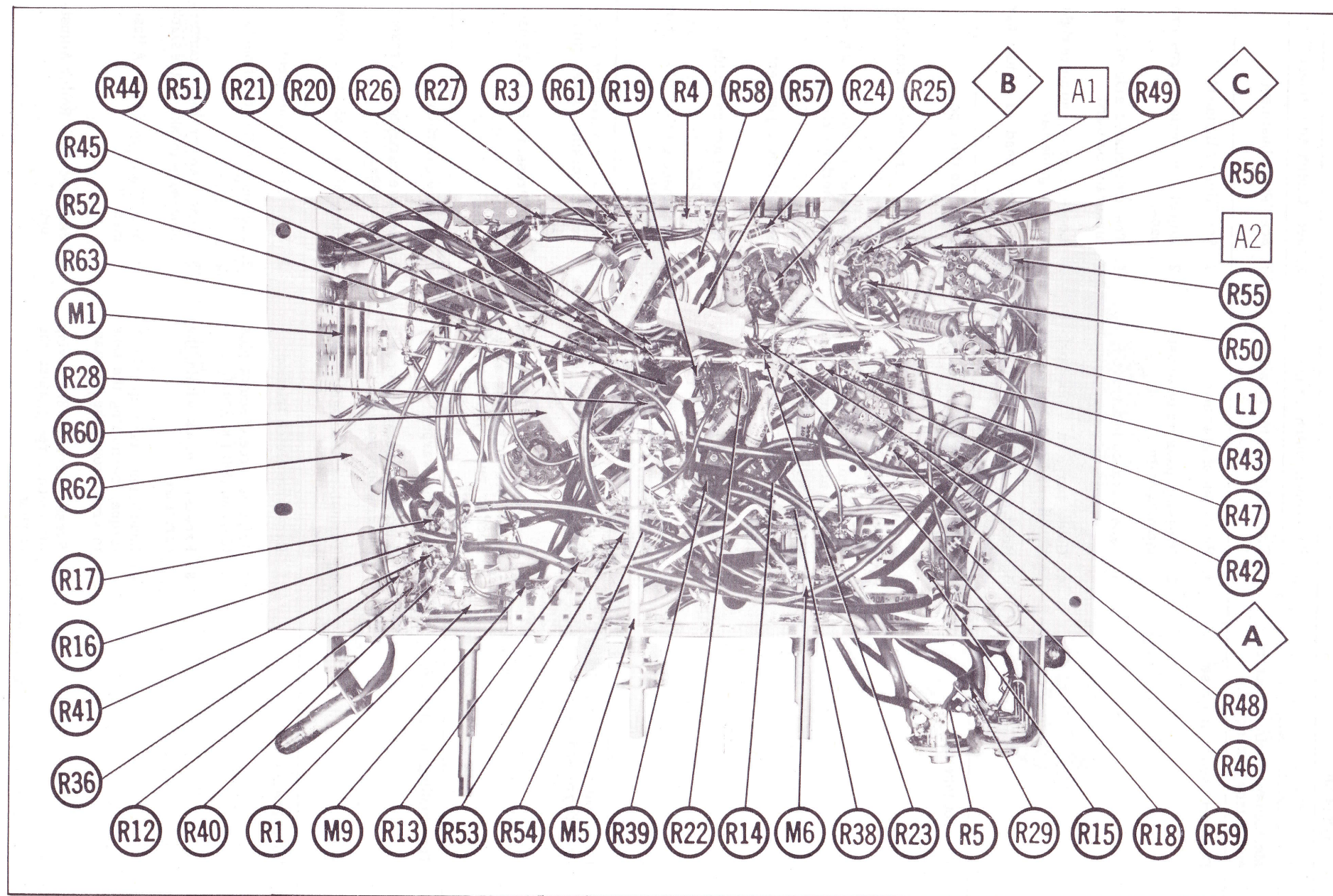


FIG. 11 AMP CHASSIS BOTTOM VIEW - RESISTOR, MISC & ALIGNMENT IDENT.

AMP PARTS LIST AND DESCRIPTIONS

TUBES

CBS				GENERAL ELECTRIC				RAYTHEON				SYLVANIA			
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.
V1	Left Channel AF Amp. -	12AX7	V4	Right Channel AF Amp. -	12AX7	V5	Right Channel Output	6Y6GT	V6	Bias Oscillator	6CG7	V7	Rectifier	5Y3GT	
V2	Left Channel AF Amp. -	12AX7													
V3	Left Channel Output	6V6GT													

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			CBS PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
X1	2N1010	Left Channel Preamplifier				NPN
X2	2N1010	Right Channel Preamp.	2N1010			NPN

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	VOLT.	REPLACEMENT DATA				NOTES
			AEROVOX PART No.	CORNEIL DUBIER PART No.	MALLORY PART No.	PYRAMID PART No.	
C1A	.80	450	AFH3-149-35	C1110	FP368-5	TMT-136	TVL-3746
B	.50	450					
C	.25	450					
C2A	.50	300	AFH2-33	B0260	FP239	TMD-32	TVL-2767
B	.50	250					
C3	1000	15	AFH1-02	A0060	WP039	TMS-4	TVL-1165
C4	100	25	SRE25V100	BBR100-25	TC2501	TD-100-25	TVL-1207
C5	100	25	SRE25V100	BBR100-25	TC2501	TD-100-25	TVL-1207
C6	100	10	SRE12V100	NL100-10	ML100-15	TE-1162	TVL-1162
C7	100	10	SRE12V100	NL100-10	ML100-15	TE-1162	TVL-1162
C8	50	6	SRE6V50	BBR50-6	TT6X50	TD-50-6	TVL-1100
C9	50	6	78573	BBR50-6	TT6X50	TD-50-6	TVL-1100
C10	8	10 NP	NP-PRS6200	BBR16-90	TCN108	TD-50-6	TVL-1112 *

† Use two units. Connect negative terminals together.
 * Not normally in distributor's stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

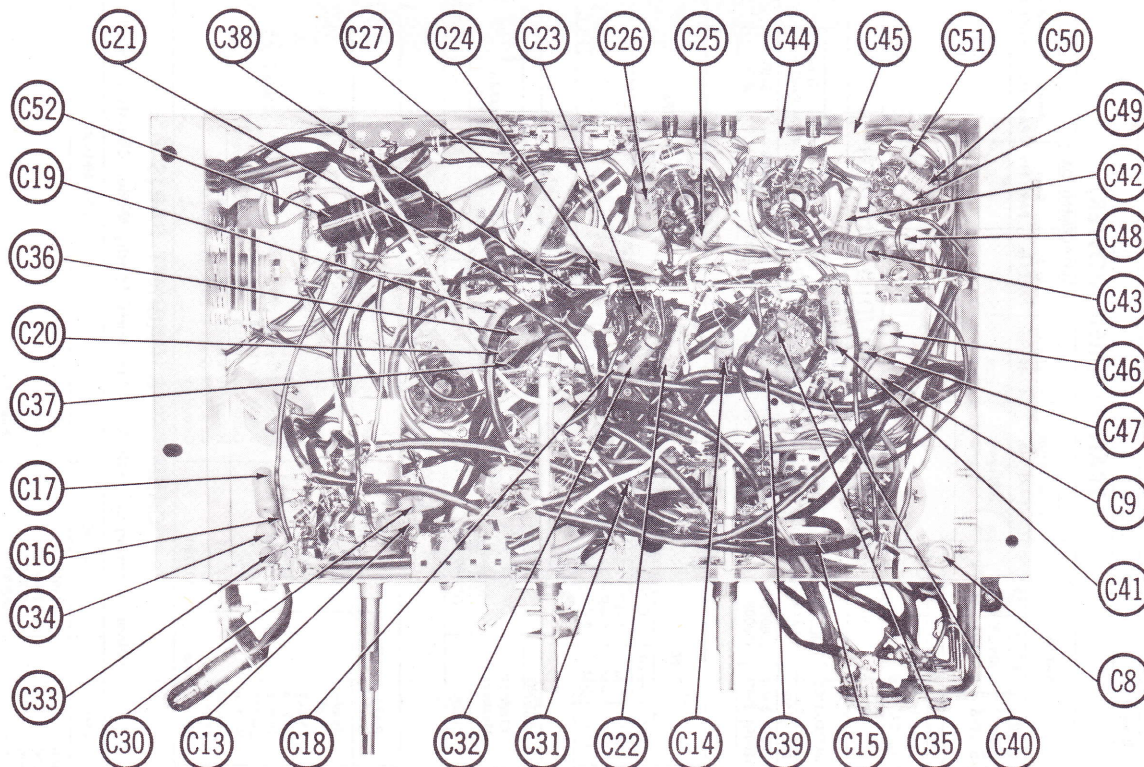
Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				SPRAGUE PART No.
			AEROVOX PART No.	CORNEIL DUBIER PART No.	ELMCO PART No.	MALLORY PART No.	
C11	.022 400V 10%		V84C4S22 10%	PW4S22	4DP-2-223	GEM-1612	4TM-S22
C12	.047 400V 10%		V84C4S47 10%	PW4S47	4DP-3-473	GEM-1615	4TM-S47
C13	.0022 400V 10%		V84C4D22 10%	PW6D22	6DP-1-222	GP222	6TM-D22
C14	.015 200V 10%		V84C2S15 10%	PW4S15	4DP-1-153	GP222	4TM-S15
C15	.015 200V 10%		V84C4P1 10%	PW4P1	4DP-3-104	GP222	4TM-P1
C16	.015 200V 10%		V84C2S15 10%	PW4S15	4DP-1-153	GP222	4TM-S15
C17	.022 200V 10%		V84C8S22 10%	PW4S22	4DP-2-223	GEM-1612	2TM-S22
C18	.01 10%		NP4S10	L10Q	CCD-100	GP410	10TS-Q10
C19	.01 200V 10%		V84C2S1 10%	PW4S1	4DP-1-153	GEM-1611	4TM-S1
C20	.015 400V 10%		V84C4S15 10%	PW4S15	4DP-1-153	GP333	10TS-T33
C21	.022 400V 10%		V84C4S22 10%	PW4S22	4DP-2-223	GEM-1612	10TS-S22
C22	.022 400V 10%		NPO-SI 220	L01T33	CCD-2-223	GP322	10TS-T22
C23	.022 400V 10%		V84C4P1 10%	PW4P1	4DP-3-104	GP222	4TM-P1
C24	.0022 400V 10%		V84C4D22 10%	PW6D22	6DP-1-222	GP222	6TM-D22
C25	.01 400V 10%		V84C4S1 10%	PW4S1	4DP-1-103	GEM-1611	4TM-S1
C26	.0022 400V 10%		V84C4S22 10%	PW4S22	4DP-2-223	GEM-1612	6TM-D22
C27	.0022 400V 10%		V84C4S22 10%	PW4S22	4DP-2-223	GEM-1612	4TM-S47
C28	.0022 400V 10%		V84C4S22 10%	PW4S22	4DP-2-223	GEM-1615	6TM-D22
C29	.0022 400V 10%		V84C4S22 10%	PW4S22	4DP-2-223	GP222	4TM-P1
C30	.0022 400V 10%		V84C4S22 10%	PW4S22	4DP-2-223	GP222	4TM-S15
C31	.01 400V 10%		V84C4P1 10%	PW4P1	4DP-3-104	GP222	4TM-P1
C32	.015 200V 10%		V84C2S15 10%	PW4S15	4DP-1-153	GP222	4TM-S15

RCA VICTOR MODEL
 SCP-2 (Ch. RS-176, TCT-2)

FOLDER 15

AMP CHASSIS—BOTTOM VIEW



AMP PARTS LIST AND DESCRIPTIONS (Continued)

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C33	.015 200V 10%	#105574 #105574	V84C2S15 10%	D6-100	PM4S15	4DP-1-153	GEM-1612	4TM-S15
C34	.022 200V 10%		V84C2S22 10%		PM4S22	4DP-2-223	GP410	2TM-S22
C35	10 10%		NPO-SI 10		L10Q1	CCD-100	GEM-1611	10TS-Q10
C36	.01 200V 10%		V84C2S1 10%		PM4S1	4DP-1-103		4TM-S1
C37	.015 400V 10%		V84C4S15 10%	D6-331	PM4S15	4DP-1-153		4TM-S15
C38	330 10%				L10T33	CCD-331	GP330	10TS-T33
C39	.022 400V 10%		V84C4S22 10%		PM4S22	4DP-2-223	GEM-1612	4TM-S22
C40	220 10%		NPO-SI 220		L10T22	CCD-221	GP322	10TS-T22
C41	.1 400V 10%		V84C4P1 10%	D6-221	PM4P1	4DP-3-104		4TM-P1
C42	.0022 400V 10%		V84C4D22 10%		PM6D22	6DP-1-222	GP222	6TM-D22
C43	.0022 400V 10%		V84C4D22 10%		PM6D22	6DP-1-222	GP222	6TM-D22
C44	10-160					463		
C45	10-160					463		
C46	.022 400V 10%		V84C4S22 10%	D6-391	PM4S22	4DP-2-223	GEM-1612	4TM-S22
C47	.0033 400V 10%		V84C4D33 10%		PM6D33	6DP-1-332	GEM-1623	6TM-D33
C48	390 10%				L10T39	CCD-391	GP339	10TS-T39
C49	330 10%				L10T33	CCD-331	GP333	10TS-T33
C50	.001 600V 10%		V84C6D1 10%	DD-102	PM6D1	6DP-1-102	GEM-1621	6TM-D1
C51	330 10%				L10T33	CCD-331	GP333	10TS-T33
C52	.22 400V 10%		V84C4P22 10%	D6-331	L10T33	CCD-331		

RCA Victor Part Number.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESIST- ANCE	WATTS	RCA Victor PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	
R1A	1meg	1/2 W	107042					Tone, Right Channel
B	1meg							Tone, Left Channel
C	750K *							Volume, Right Channel
D	750K *							Volume, Left Channel
E	Switch							Power, Off-On
R2A	500K	1/2 W	107039	B-60	A47-500K-Z	Q13-133	U48	Balance
B	Shaft			Not Req.	FS-3	Not Req.	Not Req.	
R3A	1meg		103260	BX-69	B47-1meg-S	Bl1-137	TA16L	Left Channel Normal
B	Shaft			Not Req.	Not Req.	TM-4	Not Req.	
R4A	1meg		103260	BX-69	B47-1meg-S	Bl1-137	TA16L	Left Channel Overload
B	Shaft			Not Req.	Not Req.	TM-4	Not Req.	

* Taps @ 250K, 500K.

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R5	1meg		R25	270K		R45	180K	
R6	100K		R26	100K		R46	100K	
R7	150K		R27	100K		R47	47K	
R8	100K		R28	18Ω 2W		R48	470Ω 1W	
R9	4700Ω		R29	1meg		R49	82K	
R10	560K		R30	100K		R50	270K	
R11	22K		R31	150K		R51	150Ω 2W	
R12	15K		R32	100K		R52	18Ω 2W	
R13	100K		R33	4700Ω		R53	82K	
R14	1800Ω		R34	560K		R54	82K	
R15	100K		R35	22K		R55	10K	
R16	47K		R36	15K		R56	10K	
R17	27K		R37	39K		R57	6800Ω 7W	
R18	220K		R38	220K		R58	2700Ω 2W	
R19	3300Ω		R39	1800Ω		R59	47K	
R20	47K		R40	47K		R60	10Ω 4W	
R21	180K		R41	27K		R61	470Ω 7W	
R22	100K		R42	220K		R62	33Ω 4W	
R23	47K		R43	3300Ω		R63	150Ω	
R24	82K		R44	47K				

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA						NOTES
		RCA Victor PART No.	Gramer PART No.	Meissner PART No.	Merit PART No.	Miller PART No.	Ram PART No.	
L1	Bias Osc.	108012						

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA						
	PRI.	SEC. 1	SEC. 2	RCA Victor PART No.	Halldorson PART No.	Merit PART No.	Ram PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.
T1	117V @ .79A	740VCT @ .090A	18V @ .150A	108141						
	SEC. 3	SEC. 4	SEC. 5							
	5V @ 2A	6.3VCT @ 2.1A								

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA							NOTES
	PRI.	SEC.	RCA Victor PART No.	Halldorson PART No.	Merit PART No.	Ram PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	5200Ω	3-4Ω	108003	24S92	A-2935	AU-609	A-3870	24S92	S-5X	
T3	5200Ω	3-4Ω	108003	24S92	A-2935	AU-609	A-3870	24S92	S-5X	

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	RCA Victor PART No.	QUAM PART No.	
SP1	6 1/2"	PM	3-4Ω	106701	6A1	
SP2	3 1/2"	PM	6-8Ω	105395	3A15TZ6.4	
SP3	3 1/2"	PM	6-8Ω	105395	3A15TZ6.4	

RECTIFIERS

ITEM No.	RATING	REPLACEMENT DATA					NOTES
	CURRENT (Measured)	RCA Victor PART No.	INTERNATIONAL PART No.	ITT PART No.	SARKES TARZIAN PART No.	SYLVANIA PART No.	
M1	.150A	107037	BLB	1949A	304B		Selenium Type

MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
M2	Head	106208	Record-Playback, With Leads
M3	Head	106696	Dual Erase, With Leads
M4	Switch	107134	Off-On, Micro, (On Tape Transport)
M5	Switch	108011	Stereo-Monaural
M6	Switch	108010	Record-Playback
M7	Switch	107134	Power (Part of Transport)
M8	Switch	107103	Guide Bar Switch (Part of Tape Transport)
M9	Solenoid	107043	Record-Playback, Switch Unlatching
M10	Motor	107155	Complete (Part of Tape Transport)
	Microphone	105590	Complete

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Knob	108013	Off-On-Loudness
Knob	108014	Balance
Knob	107041	Tone
Knob	108138	Function
Knob	108125	Record-Play
Cabinet	X4534	Complete
Handle	108015	Complete

TAPE CARTRIDGE PARTS LIST

Ref. No.	Description
1	Locking Screws
2	Cartridge Case-Side A
3	Spacer
4	Tape Hub
5	Spacer

Ref. No.	Description
6	Brake Spring
7	Hub Brake Slide
8	Tape Guide
9	Cartridge Case-Slide B

MECHANICAL PARTS LIST

Ref. No.	Part No.	Description
1		Tape Cartridge
2	107104	Guide Bar
3	107103	Guide Bar Switch
4	107132	Pushbuttons (4)
5		Top Dress Plate
6	107057	Right-Hand Turntable and Shaft
7	107058	Left-Hand Turntable and Shaft
8	107060	Tape Hub Drive Pin
9	107059	Drive Pin Retaining Spring
10		#4 Split Lockwasher
11		#4-40 x 1/8" Long Round Head Screw
12	107098	Tape Guide Post
13	107140	#6-40 NF-2 thd. x .71" Long Record Play Head and Erase Head Adjusting Screw
14		Record-Play Head and Erase Head Mounting Bracket
15	204043	"C" Washer .145" I.D.
16	75887	.312" O.D. x .190" I.D. x .005 thk. Flat Metal Washer
17	74078	.328" O.D. x .195" I.D. x .005 thk. Cambric Washer
18	107107	Pressure Roller
19	106696	Dual Erase Head
20		#2-56 x .156" lg. Pan Head Screw
21	107147	Record-Play Head and Erase Head Adjusting Bracket
22		#6-32 x 1/4" lg. Fil. Head Screw
23	106208	Record-Play Head
24	107133	Tape Counter Escutcheon
25	107089	Tape Counter
26		#6 x 11/16" lg. Fil. Head Tapping Screw
27	107094	Tape Tensioning Head
28	107052	Motorboard
29	108177	.061" I.D. x .307" O.D x .050" thk. Retaining Ring.
30		Tape Dress Plate Mounting Screw (2)
31	204043	"C" Retainer Washer .145" I.D.
32	107106	Rewind Idler Release Pivot
33	107084	Rewind Pivot Plate Connecting Lever
34	107131	Pressure Roller Return and Cartridge Latch Return Spring
35	107095	Spacer
36	107087	Cartridge Latch Lever
37	107078	Rewind Toggle Ass'y. Operating Lever
38	107105	Take-up Idler Shift Rod
39		#8 x 1/4" lg. Hex Head Tapping Screw
40	107119	Stop Pushbutton Bracket Spring

Ref. No.	Part No.	Description
41		Stop Pushbutton Operating Bracket
42	107063	Fast Forward Pushbutton Operating Bracket
43	107061	Rewind Pushbutton Operating Bracket
44	107062	Record-Play Pushbutton Operating Bracket
45	107124	Pushbutton Locking Slide Spring
46	107088	Pushbutton Bracket Locking Slide Lever
47	107099	Play Operating Lever Pivot Plate
48	107101	Pushbutton Pivot Lever
49	107053	Pushbutton Mounting Plate
50	107100	Pushbutton Pivot Lever Mounting Rod
51		"C" Retainer Washer .145" I.D.
52		#8 x 3/8" lg. Hex Head Tapping Screw
53	107131	Pressure Roller Return and Cartridge Latch Returning Springs (2)
54	107072	Fast Forward Actuating Lever Pivot Plate
55	74078	Cambric Washer .328" O.D x .195" I.D. x .005" thk. (2)
56	107077	Play Toggle Ass'y. Operating Lever
57		#8 x 5/8" lg. Hex Head Tapping Screw
58	108272	Felt Pressure Pad
59	107066	Pressure Pad Arm Ass'y. Mounting Bracket
60		#6 x 1/4" lg. Hex Head Tapping Screw
61	107113	Rewind Toggle Adjusting Brkt.
62	107122	Forward and Rewind Adjusting Bracket Spring
63		Flat Metal Washer .170" I.D. x .375" O.D. x .600 thk.
64		#8-32 x 3/4" lg. Hex Head Screw
65	107076	Fast Forward Actuating Lever
66	107130	Fast Forward Lever Return Spring
67	107090	Pulley Brake Release Rod
68	107054	Forward Drive Pulley
69	107056	Flywheel and Capstan Shaft Ass'y.
70	108261	Fast Forward Idler Wheel
71	107080	Take-up Idler Mounting Lever
72		Take-up Clutch Spring (.51" lg. x 5 turns x .191" O.D.)
73		#2-56 x .44" lg. Rd. HeadScrew
74	108299	Take-up Clutch Ass'y.

RCA VICTOR MODEL
SCP-2 (Ch. RS-176, TCT-2)

FOLDER 15

MECHANICAL PARTS LIST (CON'T.)

Ref. No.	Part No.	Description
75		#8-32 x 1/4" lg. Hex Socket Set Screw
76	107144	Forward Clutch Dog
77		#8-32 x 3/4" lg. Hex Head Screw
78		Flat Metal Washer (.170" I.D. x .375" O.D. x .060 thk.)
79	107122	Forward & Rewind Adjusting Bracket Spring
80	107112	Forward Toggle Adjusting Brkt.
81		#8 x 1/4" lg. Hex Tapping Screw
82		Tape Counter Mounting Bracket
83		#6-32 x 1/4" lg. Fil. Head Screw
84		#8 x 1/4" lg. Hex Head Tapping Screw
85	107118	Pushbutton Pivot Lever Spring
86	107146	Shutoff Link Lever
87		Micro Switch Mounting Bracket
88		#8 x 1/4" lg. Hex Head Tapping Screw
89	101270	#4-40 Split Pressure Roller Adjusting Nut
90	107126	Pressure Roller Adjusting Spring
91	Part of 56	Play Toggle Ass'y. Operating Lever
92	107083	Fast Forward Link Lever
93	107067	Pressure Pad Arm Ass'y. Mounting Bracket
94	108301	Play Pivot Toggle Ass'y. Lever
95	108298	Play Pivot Toggle Spring
96	108263	Fast Forward Adjusting Stud Retainer
97	108262	Eccentric Stud
98		Fast Forward Latching Brkt.
99		#6 x 1/4" lg. Hex Head Tapping Screw
100		Rewind Idler Striker Bracket
101	107121	Shutoff Link Lever Return Spring
102		Tension Band (3.50"lg. x .31" wide x .063" thk.)
103	107093	Tape Counter Drive Belt
104	107128	Rewind Toggle Lever Spring
105	107129	Rewind Arm Spring
106	107127	Rewind Idler Spring
107	107081	Rewind Idler Mounting Lever

Ref. No.	Part No.	Description
108	107096	Rewind Idler Lever Support Lever
109	107109	Rewind Idler Mounting Lever Retaining Pin
110	100200	#4-40 x 1/4" lg. Hex Socket Set Screw
111	107111	Rewind Clutch Dog
112	107082	Fast Forward Idler Mounting Lever
113	108261	Fast Forward Idler Wheel
114	107108	Rewind Drive Idler
115	107068	Pulley Brake Actuator Rod
116	107070	Rewind Pulley Brake Spring with Felt Pad
117		#8 x 1/4" lg. Hex Head Tapping Screw
118	107055	Rewind Drive Pulley
119	108299	Take-up Clutch Ass'y.
120	107054	Forward Drive Pulley
121	107117	Take-up Idler Spring
122		Lock Washer
123		#8 x 1/4" lg. Hex Head Tapping Screw
124		Motor Plate Support Bracket
125	107114	Motor Mounting Plate
126		#8-32 x 5/16" lg. Hex Head Screw
127	107097	Fast Forward Idler Support Lever
128		Motor Drive Pulley
129		Set Screw
130	107091	Flywheel Drive Idler Wheel
131	107115	Fast Forward Idler Spring
132	107079	Flywheel Drive Idler Mounting Lever
133	107116	Flywheel Idler Spring
134	97179	#10-32 Hex Nut
135		Flat Metal Washer
136	103948	Motor Mounting Grommet
137	105358	Motor Mounting Spacer
138	107155	Drive Motor Complete with Pulley
139		Motor Mounting Bolts
140	101462	Motor Fan
141		#10-32 x 1/4" lg. Set Screw
142	107069	Forward Brake Spring with Felt Pad
143		#4-40 x 3/8" lg. Round Head Screw